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REPORT NO. 6

JAN 21 '76

PROQUEEMENT SECTION CURRENT SERIAL RECORDS

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Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 November 7, 1975

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season. These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

Summary of Cotton Fiber and Processing Test Results, Crop of 1974, USDA, AMS, Cotton Division, May 1975.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1975

Discussion of Test Results

The average fiber length of short staple cottons tested from the Southwest is considerably longer and more uniform than a year ago according to the Cotton Division, Agricultural Marketing Service, USDA. Cottons are coarser and stronger than a year earlier. Shirley Analyzer nonlint content and picker and card waste are lower. Yarns spun from these samples show stronger yarn skein strength and higher appearance grades. Yarn imperfections are fewer this year. The average spinning potential yarn number is higher.

The U. S. average of medium staple samples tested through October 31 is slightly longer than the average of samples tested through this period a year ago. Picker and card waste is lower than last season. Yarns spun from these samples on the average show slightly lower appearance grades and higher yarn imperfections. Average spinning potential is lower than last season.

Southeast medium staple samples are finer and slightly weaker than a year ago. Yarns spun from these samples have lower appearance grades and more yarn imperfections than last season. The average spinning potential number is lower.

Medium staple samples tested from the South Central area show fiber length to be longer and more uniform than a year ago. Cottons are coarser than last season. Picker and card waste is lower. Yarns spun from these samples show lower appearance grades and a higher number of yarn imperfections. Average spinning potential yarn number is lower.

Medium staple samples tested to date from the Southwest show fiber strength to be weaker at zero gage strength tests. Picker and card waste is lower than a year ago. Yarns spun from these samples show higher yarn appearance grades. Yarn imperfections are higher than last season.

Medium staple samples tested from the West show cottons to be finer and considerably stronger than last season at this time. Picker and card waste is lower than a year ago. Yarns spun from these samples show stronger yarn skein strength and considerably lower appearance grades. Yarn imperfections are much higher this season. The average spinning potential yarn number is higher than a year ago.

Averages of fiber and processing tests from selected gin points in the United States through October 31, 1975 1/

Table 1.--Cotton:

						- 4					
Processing test results	Gnin	Potent.	Yarn No.	41	63	64	98	67	63	m	
	ty.	Imperf- ections	No. Yarn	17	17	16	19	13	17	a	
	Yarn quality	ppear-	Index	104	111	109 .	98	4 48	103	5	
	Yar	Skein str.	Lbs. 22s	90	99	102	101	105	101 104	4 (22s)	ble.
		P&C waste	Pct.	6.7	0. r.	6.0	5.8	7. 1.	4.5	0.5	this ta
		S A nonlint	Pct.	3.5	33.1	3.0	0, 0, 8, 0,	0°0	9.00 0.00	0.5	sons in
	Fiber strength	1/8" gage	G/tex	21 22 22	53 55 55	23.23	55	88	88	1	of modal quality significant for comparisons in this table.
results		Zero gage	Mpsi	88 86	82 81	86 86	84 81	87 95	85 85	ત	of modal quality significant for
er test	Mike fine	ness	Rdg.	0.4	4.5	4.4	4.4 w.e.	8.0.	† † † † †	٥.	
Fiber	raph	50/2.5 unif.	Pct.	9 1 1	45 45	77 74 74	14 14 142	7 7 7 7 7 8	45 45	ત્ય	of samples ered to be
	Fibrograph	2.5% span	Inches	.96	1.09	1.08	1.07	1.12	1.08	0.02	d number
	Lots	tested	No.	9	13	34 32	29 21	רט רט	81		a limited lifference
ī	Staple group Area, and	Crop year	Chout Cton or	Southwest 1974 1975	Medium Staple: Southeast 1974 1975	South Central 1974 1975	Southwest 1974 .	West 1974 1975	U.S. Average 1974 1975	Significant dif- ference 2/	<pre>1/ Based on a limited number of samples 2/ Minimum differences considered to be</pre>

Averages of fiber and processing tests from selected gin points in the United States through October 31, 1975 1/ (Continued)

Table 1. -- Cotton:

1		ı			
	SPY	No	63	63	6
	Cctns	No	∞ ∞	80	a
	Imprfctns card comb	o o	17 17 17	20	CU
esults	Quality Appearance rded combed	Indx	115	120 130	5
Processing Test Results	Yarn Quality Appearand carded com	Lbs. Indx Indx	108	100	2
essing	Ya. gth combed	Lbs.	122	122	(22s) 2(50s)
Proc	Strength	Lbs. I	105	103	4(22s) 4(22s)
	Comber Waste	Pct.	17.9	18.6	0.5
	P&C Waste	Pct.	8.1	88	0.5
	SA Non- lint	Pct.	3.4	3 9 9	0.5
S	1/8" gage	G/tx	22 24	24	٦
Results	Strength Zero 1/8 gage gag	Mpsi	82 83	88	a
Test R		Rdg.	4.3	† † † †	0.5
Fiber 7	h Unif	Pct.	44 44	45	a
F	Length Span Unif Mike	In.	1.16	1.16	0.02
	Lots	No.	٦ ٢	27	
	Staple group, Area, and Crop year		Long Staple: Southeast 1974 1975	South Central 1974 1975	Significant Difference 2/

Minimum differences considered to be significant for comparisons in this table. Based on a limited number of samples of modal quality नोल

		Spin	tial	No
	rns	Appearance Imprfect'ns Spin Index	lint Gra Yel Waste 8s or 22sor 8s or 22s or 8s or 22sor 131 (31	Pet No No Pet Lbs Lbs Pet Pet No No No No
	Processing Test Results - Carded Yarns	ance	22sor 8	No
	ilts - C	Appear Inde	8s or 74 tx	No
	est Resu	Elon- S.A. Raw Stock P & C Strength Elongation	22s or 27 tx	Pet
	ssing T	Elonga	8s or 74 tx	Pct
f 1975	Proce	gth	22s or 27 tx	Lbs
crop o	1	Stren	8s or 74 tx	Lbs
areas,		P & C	Waste	Pct
luction		olor Stock	Yel	No
y pro		c Gr	c No	
ics; by		S.A.	Pct	
cterist	lts	Elon-	1/8" lint	Pct
ty chara	Fiber Test Results	er gth	1/8" Gage	G/tex Pct
Quali-	Fiber T	Fiber Strength		Mpsi
staple		Mike		Rdg
short		ital graph	2.5% Unif span	Pct
upland		Digital Fibrograph	2.5% span	Ч
erican	*		Stple	32s
Table 2Cotton, American upland short staple: Quality characteristics by production areas, crop of 1975	Production Area, Classification	& Sample Number	Grade Name & Code	
Tab			No	

ı	1.		ı					-
	Spin. Poten-	tial	8		41	42 38	55	49
	Imprfect'ns	8s or 22sor 74 tx 27 tx	윙		11	13	80	13
Processing Test Results - Carded Yarns	Imprf	8s or 74 tx	위		20	22	13	21
	ance	22sor 27 tx	No		120	120 110	120	120
lts - C	Appearance Index	8s or 22sor 8s or 22sor 74 tx 27 tx	No No		120	120	130	130
st Resu	ion		Pct		6.5	6.0	4.9	5.9
ing Te	Elongation	8s or 22sor 8s or 22s or 74 tx 27 tx	Pet		INT 7.7	ENT 6.7 6.8	NT 7.1	NT 7.2 7.0
Process	- q	22s or 27 tx	Lbs		3	99 PERCENT 102 6. 101 6.	100 PERCENT 345 113 7.1	99 PERCENT 105 7.
죠	Strength	8s or 274 tx 2	Lbs		100 PER 314 100	99 319 1 316 1	100	99 325 1 311
1								
	Color Raw Stock P & C	Waste	Pct		0.9	5.7	5.5	5.3
	Color aw Stoc	Yel	읾		4	4 4	4	4 4
	C. Raw	Gra	읽		2		2	1
	S.A. Non-	lint	Pet		2.9	2.4	2.6	2.7
t s	Elon- gat'n	1/8"	Pet		611	LX571 5.5 5.5	LX571 5.9	LX571 5.6 5.8
Fiber Test Results	oer ngth	1/8" Gage	G/tex		LANKART 611 22 6.6	LANKART LX571 22 5.5 21 5.5	LANKART LX571 24 5.9	LANKART LX571 22 5.6 21 5.8
Fiber]	Fiber Strength	Zero Gage	Mpsi		87	91 89	46	88 88
	Mike		Rdg		4.2	4.6	5.0	3.7
	tal raph	Unif	Pet		9 4	44	48	45
	Digital Fibrograph	2.5%	되		42 31 0.95	32 1.01 32 0.98	33 1.06	1.01
		Stple	<u>32s</u>	AREA	31	32	33	32
rea,	er		·	AR	42	31	41	32
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTHWEST	CENTRAL TEXAS BRANDON 2 SLM LT SP	COMMERCE 2 MID 3 MID	WACO 3 SLM	WAXAHACHIE 1 MID LT SP 2 MID LT SP

1975
JC
crop c
areas,
production
bу
Quality characteristics
staple:
medium :
upland
American
Cotton,
Table 3

		Spin.	Poten- tial	N N		51	57		19	53	52	89	58	09	99	53	57	55
		Imprfect'ns	50s or	외		21	20		16	11	16	16	14	15	10	14	25	26
3	arns	Imprfe	22s or 27 tx			25	30		18	16	22	17	20	16	15	18	39	28
7	- carded rarns	ance	os or			80	70		80	80	70	80	10	10	70	10	9	70
5	Its - Ca	Appearance Index	22s or			100	100		100	100	100	100	100	06	06	100	80	06
+	st Mesu	tion	50s or	Pct		4.1	3.9		4.6	3.8	3.5	4.8	4.1	4.3	4.8	4.1	4.3	3.8
E 2000	Frocessing lest Results	Strength Elongation	22s or 50s or 22s or 27 tx	Lbs		99 PERCENT 95 28 6•1	100 PERCENT 100 32 5.5		100 PERCENT	100 PERCENT 95 31 5.5	100 PERCENT 103 30 5.3	100 PERCENT 110 37 6.4	100 PERCENT 103 34 5.4	100 PERCENT 99 34 5.7	100 PERCENT 106 37 6.5	100 PERCENT 96 31 5.4	100 PERCENT 101 34 5.6	100 PERCENT 101 32 5.3
		۳ م م	Wast	Fct		6.4	7.7		4 . 8	5.0	4.8	4.4	4 . 8	4.8	4.2	5.5	6.2	5.2
		Color Raw Stock	Yel	읽		4	8		ю	9	ю	м	м	ю	8	٣	_ m	m
	-			읽		æ	æ		7	1	1	-	-	2	-	1	m	2
Ribar Bact Domilto	nesares	Elon-	1/8" gat'n Non- Gage 1/8" Lint	G/tex Pct Pct		STONEVILLE 213 21 6.6 2.5	MCNAIR 612 22 5.7 5.5		ELTAPINE 16 24 7.4 3.1	STONEVILLE 213 22 6.3 3.1	TONEVILLE 213 22 5.3 2.5	DEL TAP INE 16 23 7.2 2.3	RYCOT #4 22 5.5 2.6	STONEVILLE 213 23 6.4 2.6	DELTAPINE 16 23 7.2 2.0	TONEVILLE 213 22 5.9 3.3	STONEVILLE 213 23 6.2 5.0	STONEVILLE 213 22 5.6 3.3
+ o o E	Test	Fiber Strength	1			S1 80 2			۵	0,	S		&	• ,	٥	S	•,	
Fibo	TIDE	Ω	140			c	83		82	83	06	82	93	84	85	83	84	88
			Mike	Rdk		4.6	4.3		4.7	5.0	4.5	4.5	4.6	4.6	4.0	4.8	4.6	4.8
		Digital Fibrograph	Unif.	Pct		45	46		94	47	46	45	44	46	77	45	46	45
		Digital Fibrogre		티		1.04	1.14		1.15	1.12	1.11	1.13	1.14	1.12	1.13	1.08	1.12	1.10
			Stple	32s	AREA	34	36	AREA	36	35	35	35	35	35	35	34	35	35
Area,	tion	ber	de		⋖	41	4A 4.1		41	41	41	41	41	41	41	41	51	ENCE 41
Production Area,	Classification	& Sample Number	No Grade Name & Code		SOUTHEAST	ALABAMA GREENBRIER 1 SLM	NORTH CARDLINA LAURINBURG 1 SLM	SOUTH CENTRAL	ARKANSAS ALTHEIMER 1 SLM	DUMAS 1 SLM	HUGHES 1 SLM	KEISER 2 SLM	LEACHVILLE 2 SLM	LEACHVILLE 2 SLM	MARION 1 SLM	OSCEOLA 2 SLM	TURRELL 1 LM	LOUISIANA LAKE PROVIDENCE 1 SLM 41

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975 -- (Continued)

			ı						- 8	-							
	Spin.	Poten- tial	위		52	55	54	89	54	65	99	8 4	53	57	63	52	55 56
	ct'ns	50s or	읽		16	11	20	15	17	17	14	10	6	20	17	01	14
rns	Imprfect'ns	22s or 50s c 27 tx 12 tx			20	19	28	16	23	24	17	12	10	22	11	18	21
Carded Yarns	eo	50s or 2			70	70	70	96	80	80	70	06	80	70	06	20	80
1	Appearance Index	22s or 50	ł		100	110	06	110	100	100	110	100	110	06	110	100	110
Test Results	ation	50s or	Pet		3.8	3.9	3.7	4.4	3.8	4.3	4.5	3.7	3.4	4.3	4.7	3.8	4.3
Processing Te	Elongation	r 22s or 27 tx	띪		PERCENT 30 5.8	PERCENT 31 5.5	PERCENT 32 4.9	PERCENT 40 6.0	PERCENT 33 5.5	PERCENT 37 6.5	PERCENT 37 6.4	PERCENT 29 5.4	PERCENT 30 4.9	PERCENT 32 6.0	PERCENT 36 6.3	PERCENT 28 5.7	PERCENT 30 5.0 29 5.9
Proce	gth	50s or	Ips		PER 30	9ER 31		PEF 40	93 33	9 PER	PER 37	PER 29				28 28	30 29
	Strength	22s or 27 tx	Lbs		100	100 95	100	100	100	100	111	100 98	100	100 98	105	99	100 91 98
	8 G	Waste	Pet		5.3	5.5	5.9	5.9	5.4	5.5	4.9	5.5	5.1	9 8	5.2	5.2	5.5
	or	Yel	외		ю	3	2	۳	2	2	7	9	8	m	2	6	m m
	Color Raw Stock	Gra	읾		1	2	-	2	1	-	-	2	1	-	-	2	2 2
	S.A.	Non- Lint	Pet		2.9	3 3.3	0 • 4	3.8	3.2	3.4	2.1	3.7	2.5	1.8	3.2	3.4	2.7
S	Elon-	gat'n 1/8"	Pet		LLE 213 6.0	21	LLE 731N 5.3 4	KING 111	NE 25 6.0	NE 16 6.7	NE 16 6.7	LLE 213 5.2	LLE 256	LLE 213 6.7	INE 16	TONEVILLE 213 21 6.6	E 6.5
st Results	r rth	1/8" Gage	G/tex		STONEVILLE 23 6.	STONEVILLE 22 6.	STONEVILLE 24 5.	DIXIE K 23	DELTAPINE 25 24 6.0	DELTAPINE 16 23 6.7	DELTAPINE 24 6	STONEVILLE 23 5.	STONEVILLE 22 4.	STONEVILLE 21 6.	DELTAPINE 22 6.	STONEVI 21	AUBURN 20 20
Fiber Test	Fiber	Zero Gage	Mpsi		85	48	94	46	88	82	83	06	96	80	83	81	82 81
Fi		Mike	Rdg		4.3	4.6	5.1	4.4	6.4	4.5	4.3	5.1	5.1	4.2	4.7	4.6	4.1
	ď				45	7 9 9 9	47	7 94	7 9 7	45 ,	43 /	94	45	94	47	46	445
	Digital Fibrograph	n n	Pet														
	Dig		티	inued)	1.05	1.10	1.13	1.09	1.10	1.12	1.12	1.12	1.13	1.04	1.14	1.09	1.07
		Stple	32s	(Cont	34	35	35	34	35	35	35	35	35	34	35	34	35
trea,	er	П		EA	41	41	50	51	41	N. 14	41	41	14	31	41	41	41
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTH CENTRAL AREA (Continued)	MISSISSIPPI COMO 1 SLM	EDWARDS 1 SLM	GREENWOOD 1 LM PLUS	INDIANOLA 1 LM	NITTA YUMA 1 SLM	PANTHER BURN	SCOTT 1 SLM	TRIBBETT 1 SLM	TRIBBETT 1 SLM	MISSOURI BELL CITY 1 MID	COOTER 1 SLM	ESSEX 1 SLM	SENATH 1 SLM 2 SLM

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of -- (Continued)

	Spin.	Poten- tial	외		56	58		7.1	89	73	75
	ct'ns	0s or	윈		7	25		18	20	56	30
rns	Imprfect'ns	22s or 50s or 27 tx 12 tx	위		11	31		23	30	37	34
ded Ya	oce	50s or 2	l l		80	10		70	70	09	09
Processing Test Results - Carded Yarns	Appearance Index		1		100	06		100	80	70	80
Result		22s or 50s or 22s or 50s or 22s or 27 tx 12 tx 27 tx	Pct		4.6	4.5		4.7	4.4	4.4	9.4
ng Test	Elongation	s or 50	1 IP		0	4		5.7	0.5	5.4	4T 5.9
cessir		or 22	Pct		95 PERCENT 5 34 6.0	75 PERCENT		100 PERCENT 32 46 5.	100 PERCENT 127 44 6.0	PERCENT	100 PERCENT 132 47 5.9
Pro	Strength	or 50s	sqI			75 P		100 P 132 4	9 9 4	10	4 001
	Stı	22s c 27 to	sg]		95	104		132	121	123	132
	Color Raw Stock P & C	Waste	Fet		 80	5.8		4.2	4.2	3.7	4.5
	Color W Stock	Yel	위		m	3		М	60	2	6
			읽		1	2		0	0	-	0
	S.A.	Non- Lint	Pet		2.2	2.8		1.9	1.9	2.1	1.9
ts	Elon- gat'n 1/8"		Pet		INE 16 6.4	6.4		5.2	\$J-2 5.7	5.2 5.2	5.6
Fiber Test Results	er tth	1/8" Gage	G/tex		DELTAPINE 16 22 6.4	HANCOCK 22		ACALA SJ-2 27 5.8	ACALA 28	ACALA SJ-2 27 5.3	ACALA SJ-2 27 5.0
iber Tes	Fiber Strength	Zero	Mpsi		98	82		92	96	16	63
E		Mike	Re		9•4	4.0		4•3	3.9	4.0	3.9
	al traph	Unif.	Pet		45	94		14	45	45	47
	Digital Fibrograph	1	티	inued)	1.07	1.04		31 35 1.10	35 1.12	35 1.13	35 1.11
		Stple	32s	(Cont	41 35	41 34	AREA	35	35	35	35
Area,	er			REA	41	41	Ø		31 31	31	31
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTH CENTRAL AREA(Continued)	TENNESSEE BRADEN 1 SLM	FLINTVILLE 1 SLM	WEST	CALIFORNIA BAKERSFIELD I MID	BUTTONWILLOW 1 MID	HANFORD 1 MID	WASCO 1 MID

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